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SHIPILLO, Valentin Pavlovich; LABUNTSOV, V.A., red.; LARIONOV, G.Ye., tekhm. red.

[Systems for the grid control of the mercury rectifiers of automatically controlled electric drives] Sistemy setochnogo upravlenia rtutnymi vypriamiteliami dlia avtomaticheskikh elektroprivodov. Moskva, Gos. energ. izd-vo, 1961. 109 p. (Biblioteka po avtomatike, no.36) (MIRA 14:9)

(Electric driving) (Automatic control) (Mercury-arc rectifiers)

22883

S/089/61/010/005/011/015 B102/B214

21.1200

AUTHOR:

Labuntsov, D. A.

TITLE:

Critical thermal loads on forced motion of water which was

not heated to the saturation temperature

PERIODICAL:

Atomnaya energiya, v. 10, no. 5, 1961, 523-525

TEXT: One of the possibilities for the increase of the thermal reactor power consists in increasing the intensity of heat exchange in the core. Experiments of this kind are, however, limited on account of a critical thermal load (which for underheated water can amount to 10<sup>7</sup> kcal/m<sup>2</sup>·hr).

thermal load (which for underheated water can amount to 10 koal/m ·nr). When this load is reached there is a sudden deterioration of heat transfer (instead of bubble formation surface film is formed). Numerous experimental studies of this critical thermal load showed that it depends on pressure, current velocity, and underheating of the liquid; and is practically independent of the length, shape, and diameter of the pipe line. An effect of the diameter is first noticeable when the diameter is smaller than 2 mm. In the numerous publications pertaining to this problem the dependence of the critical thermal load on the parameters in the whole

Card 1/2

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KOMAROV, V.G., prof., red.; LABUNTSOV, V.A., kand. tekhn. nauk, red.; ANTIK, I.V., red.; FRIDKIN, L.M., tekhn. red.

[Regulated transistor current rectifiers]Poluprovodnikovye upravliaemye ventili; sbornik perevodnykh statei. Moskva, Gosenergoizdat, 1962. 159 p. Translated articles. (MIRA 16:2) (Electric current rectifiers)

SHIPILLO, Valentin Pavlovich; SIRITSA, Vasiliy Vasil'yevich; EULATOV, Oleg Georgiyevich; LABUNTSOV, V.A., red.; FRIDKIN, L.M., tekhn. red.

[Electromagnetic processes in a high-speed reversive electronic converter] Elektromagnitnye protsessy v bystrodeistvuiushchem reversivnom ionnom preobrazovatele. Moskva, Gosenergoizdat, 1963. 79 p. (Biblioteka po avtomatike, no.83)

(Electric current converters)

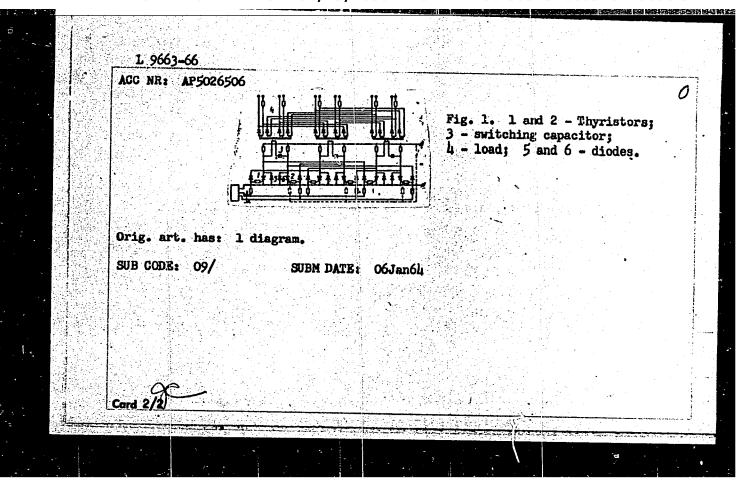
LABUNTSOV, V.A., kand. tekhn. nauk, dotsent; NOPIRAKCVSKIY, I., inzh.

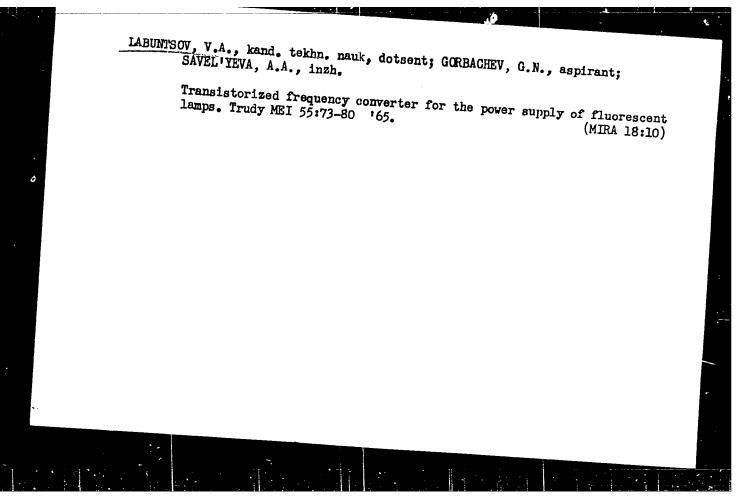
Magnetic and semiconductor system for controlling rectifier converters. Elektrichestvo no.2:29-34 F '65.

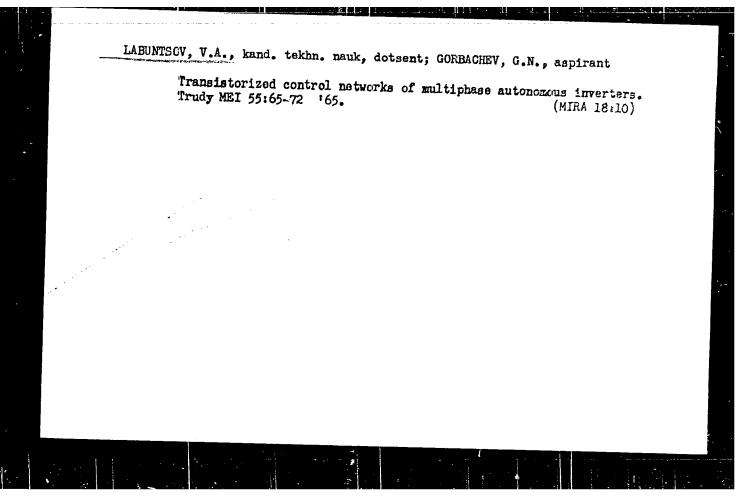
(MIRA 18:3)

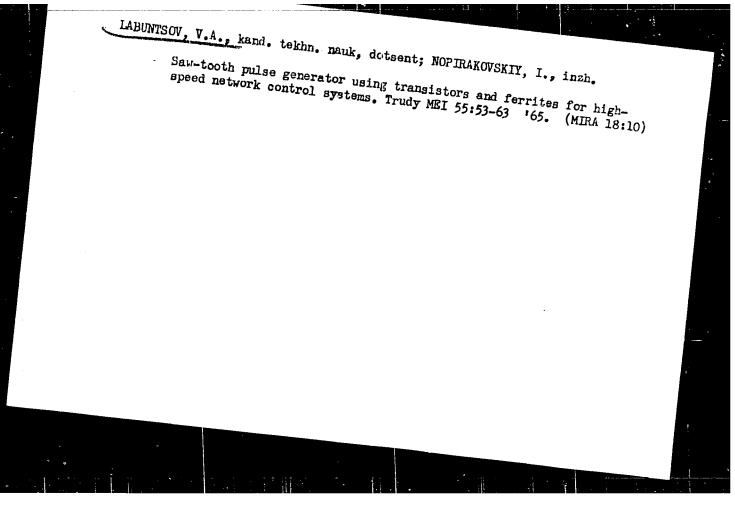
1. Moskovskiy energeticheskiy institut.

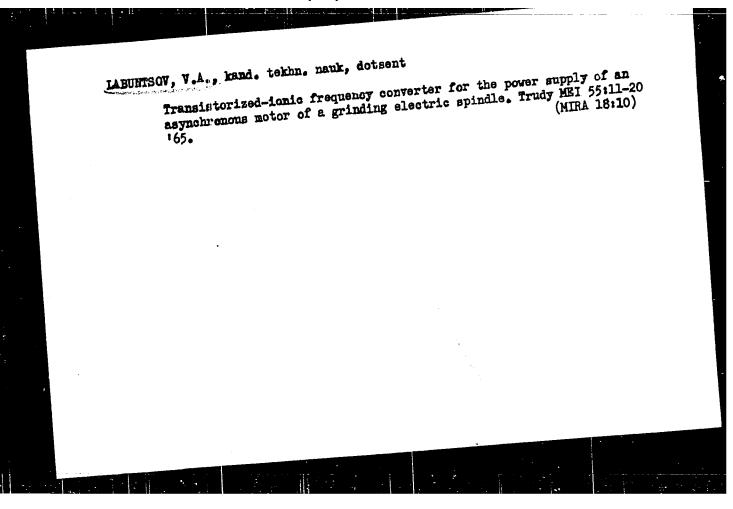
| L 9663-66 EMT(d)/EMP(1) LIP(e) BB/GG  ACC NR: AP5026506 SOURCE CODE: UR/0286/65/000/019/0036/003                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AUTHORS: Gorbachev, G. N.; Labuntsov, V. A. 14                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ORG: none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| TITLE: Ring shift register. Class 21, No. 175118                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 36                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| TOPIC TAGS: shift register, transistorized circuit                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ABSTRACT: This Author Certificate presents a ring shift register of thyristors with capacitor switching, which produces scaling an even number of times. To increase the reliability and to decrease the required power, the load is connect increase the reliability and to decrease the required power, the load is connect increase the reliability and to decrease the required power, the load is connected to the resistant between the angels of the register of the resistant power. |
| anguage which Author Contificate presents a ring shift register of thyristors                                                                                                                                                                                                                                                                                                                                                                                                                |
| ABSTRACT: This Author Certificate presents a ring shift register of thyristors with capacitor switching, which produces scaling an even number of times. To increase the reliability and to decrease the required power, the load is connect increase the reliability and to decrease the required power, the load is connect increase the reliability and to decrease the required power, the load is connect.                                                                              |











# LABUNTSOVA, M.A. The "Vegetation of New Zealand" exhibit in the Main Botanical Garden. Biul. Glav. bot. sada no.55:48-50 '64. 1. Glavnyy botanicheskiy sad AN SSSR. (MIRA 18:11)

LaBur, I.

Let's confirm our initial successes. Mast.ugl. 3 no.2:10 F '54.

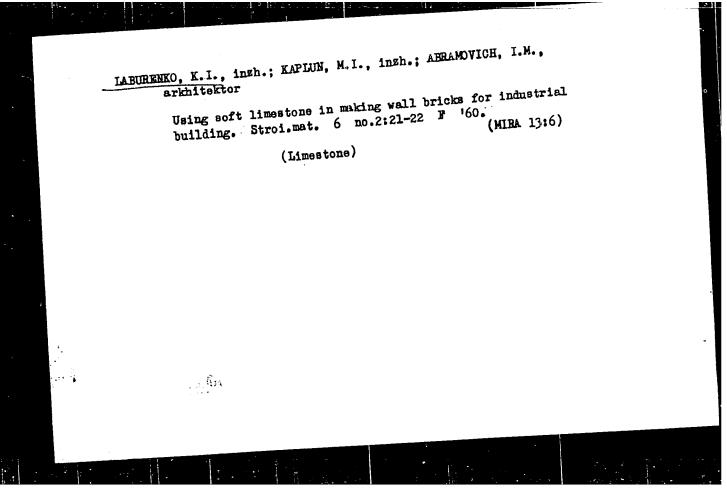
(MLRA 7:3)

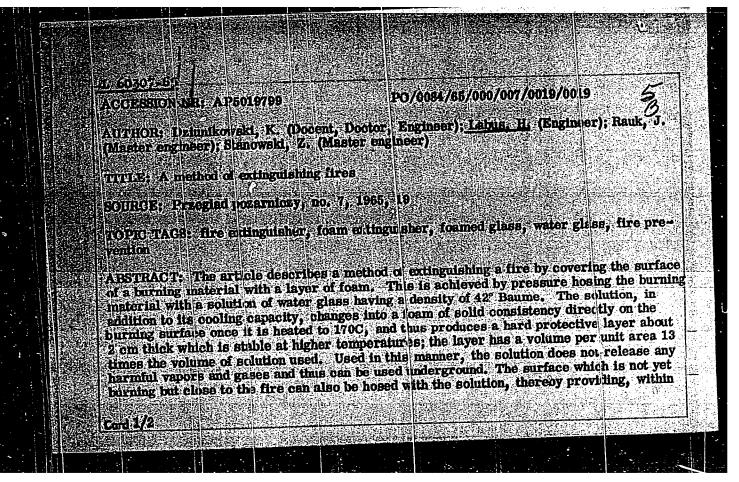
1. Mashinist kombayna shakhty No.1 "TSentral'neya" kombinata
Stalinugol'.

(Coal mines and mining)

SOURCE CODE: UR/0340/65/000/009/0017/0017 L 4979-66 ACC NR: AP5027719 Laburda, R. (Designer) AUTHOR: ORG: none TITLE: Hydraulic rotary loader SCURCE: Sel'skiy mekhanizator, no. 9, 1965, 17 TOPIC TAGS: tractor, construction machinery, agriculture, agricultural machinery, hoisting equipment/ HØN 50 loader ABSTRACT: A high-speed universal HØN-050 hydraulically operated rotary tractortype loader is being produced by the Podpolyanskiy mashinostroitel'nyy zavod (Podpolyanskiy Machine Construction Plant) in Czechoslovakia. Its 40-hp engine operates at 1500 rpm, and its dual-axle chassis and auxiliary equipment make it applicable to construction and agricultural operations. Aside from its standard equipment, HON-050 is provided with a hydraulic system, rotary platform, boom on a circular rotary plate, and interchangeable working equipment. The latter includes 11 items such as grabs, showels, buckets, hooks, forks, pipe-layers, etc. Card 1/2 09011340

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| instyput Gornicins (Ma | a glass-like fireproof lay       | er and preventing the further spread<br>1252 Class 61b, 2, held by the Glown<br>The patent is dated October 20, |
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|                        | y Instytut Gornictwa, Katowice ( | Main Mining Institute)  SUB CODE: IE, MT                                                                        |
| 2/2 APP                |                                  |                                                                                                                 |

TOPOLSKY, L., dr.; SMEJKALOVA, J.; LABUS, I.

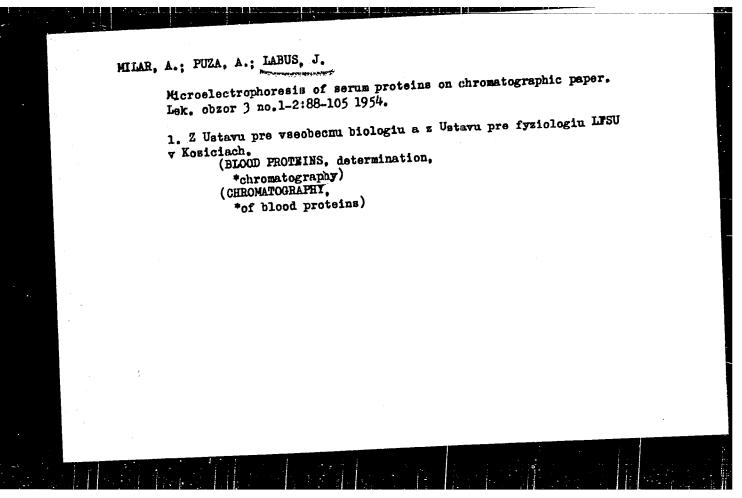
Treatment of internal genitalia with second line antituberculotics. Cesk. gynek. 30 no.1:40-43 Mr. 65.

1. Liecebna pre tuberkulozu v Novom Smokovci (riaditel: dr. K. Krchnavy) a Gyn.-por. oddzial Obvodniho ustavu narodniho zdravi v Poprade (veduci: dr. L. Topolsky). 2. L. Topolsky's address: Poprad, Uzavreta 2.

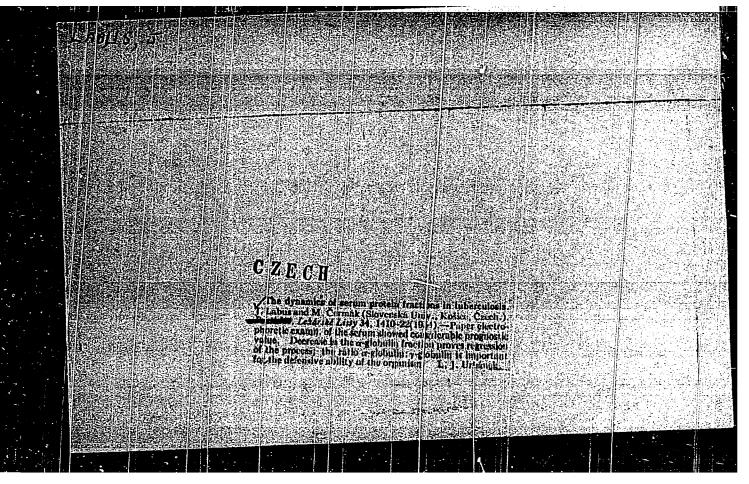
TOPOLSKY, L. MUDr.; POLEDNIK, J., MUDr.; SMEJKALOVA, J.; LABUS, I.

Fertility following treatment of tuberculosis of the internal female genitalia. Cesk. gynek. 44 no.3:198-201 Ap'65.

1. Gyn-por. odd. Obvodniho ustavu narodniho zdravi v Poprade (veduci: MUDr. L. Topolsky); Gyn.-por. odd. UNZ v Krompachoch (veduci: MUDr. J. Polednik) a Liecebna pre tbc v Novom Smokovci (riaditel: MUDr. K. Krchnavy).



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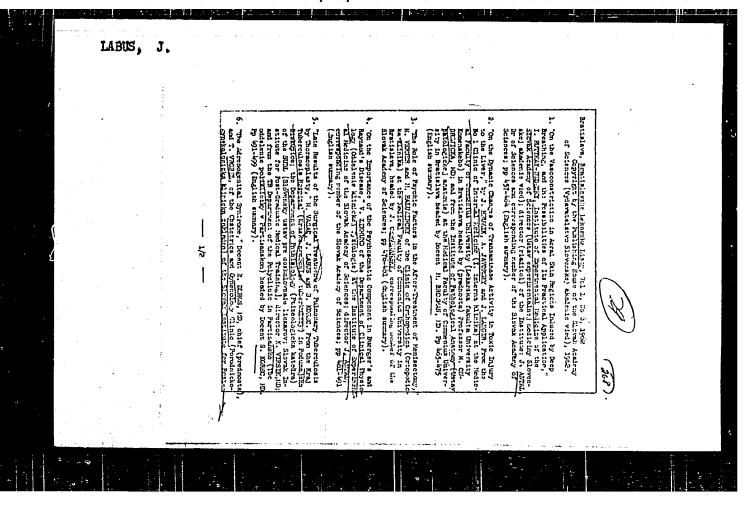


VAGAC, M.; LABUS, J.; KOREC, S.

Some aspects of surgical therapy of pulmonary tuberculosis by thoracoplasty. Bratisl. lek. listy 42 no.8:491-499 '62.

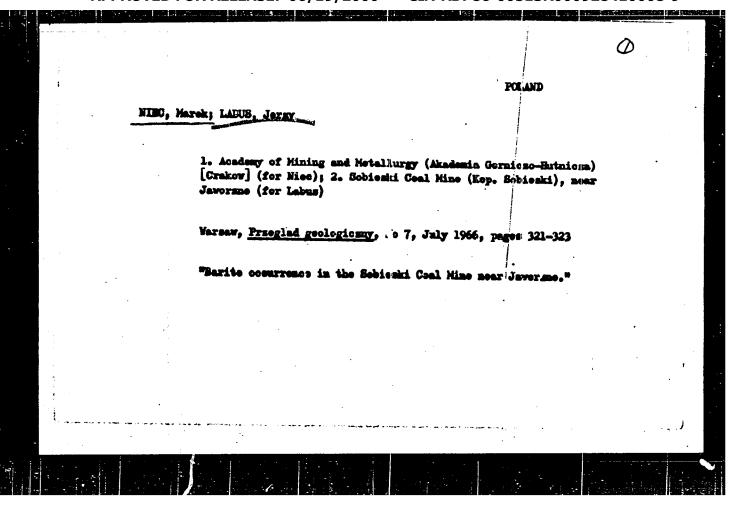
1. Z Krajskej nemocnice tuberkulozy v Podunajskych Biskupiciach a z Ftizeologickej katedry SUDL, riaditel MUDr. K. Virsik, a z tbc oddelenia polikliniky v Partizanskom, prednosta doc. MUDr. S. Korec.

(THORACOPLASTY)



Int rglacial or preglacial fossil peats in the Jaworzno region.
Przegl geol 13 no.2:75-76 F :65.

1. Sobieski mine, Jaworzno.



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### LESUCCA, Al.

### RUMANIA

Importante of Atomic Physics of the Actions of the IPI, (Intellered to Picies Atomics al Academica F.P.P.)

Buch root, Simili vi Corneteri de Patelurelo, De 4, 1981, pp 465-477.

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### Co-nublicus:

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LAPUSCA, E.; TEITEL, T.

Experimental research on magnetic properties of Al-Ni-Fe sintered alloys. p. 25. STUDII SI CERCETARI DI FIZICA. Bucuresti. Vol. 6, no. 1, Jan/Par. 1955.

So. East European Accessions List Vol. 5, No. 8 August, 1956

Category : RUMANIA/Magnetism - Ferrites Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4043 Author : Labusca, Elena; Ionescu, M., Nicolau, Ed. F-5 Title Experimental Investigation of Nickel and Copper Ferrites. Orig Pub : Comun. Acad. RPR, 1956; 6, No 5, 649-654 Abstract: Using methods that are peculiar to powder metallurgy, the author had developed a method for obtaining magneto-dielectric materials of the double nickel ferrite type. The method consists of pressing and sintering a suitable mixture of pure oxides of Fe, Ni, and Zn. The double ferrite has magneto-dielectric properties, contributing to its use at high frequency, and is characterized by a high resistance (small volume losses). To be usable in the frequency band of 0.15 -- 4.5 mc, the ferrite composition should have a NiO/ZnO ratio of 0.35 and a ratio (Ni0 + ZnO)/Fe<sub>2</sub>0<sub>3</sub>= 1. Card : 1/1

LABUSCI, E.

Studies on magneto-dielectric materials of the ferrite type.

p. 307 (Academia Republicii Populare Romine. Institutul de Fizica. Studii Si Cercetari De Fizica. Vol. 7, no. 2, Apr./June 1956. Bucuresti, Mumania)

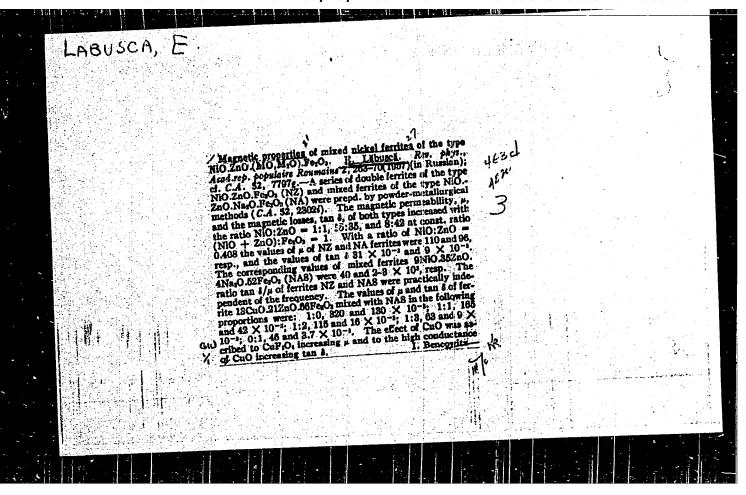
Monthly Index of East European Accessions (EEAI) LC. Vol. 7, nc. 2, February 1958

LABUSKA, E.; LABUSKA, N.

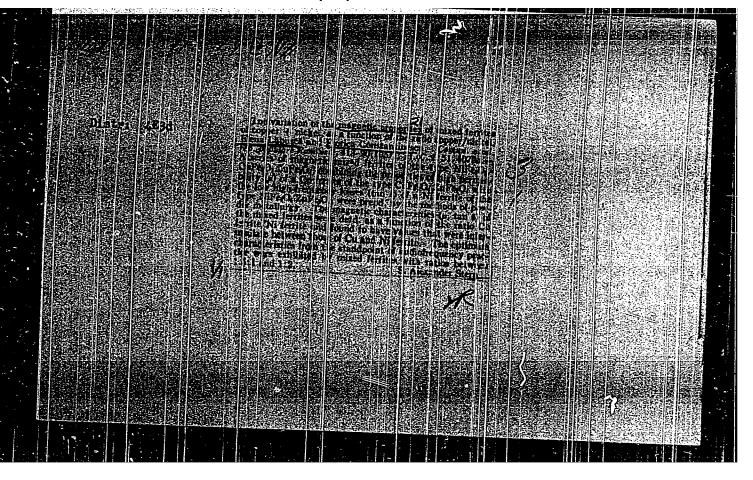
"Experimental research on the specific properties of Rumanian hard mineral-ceramic materials for cutting metals."

p. 121 (Studii Si Cercetari De Metalurgie) Vol. 2, no. 1/2, 1957 Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958



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RUMANI / Magnetism - Ferrites and Ferrimagnetism

F-6

Abs Jour : Ref Zhur - Fizika, No 8, 1958, No 18205

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: Labusca Flenn, Constantinescu Florica

Inst

Title

: Variation of the Magnetic Properties of Mixed Ferrites Cu Ni as a Function of the Ratio of the Ferrite of Copper to the

Ferrite of Nickel

Orig Pub: Studii si cercetari fiz. Acad. RPR, 1957, 8, No 3, 347-357

Abstract : On the basis of a nickel-ferrite of the type NiFe2O4.ZnFe2O4, which is characterized by an exceedingly small total losses, and a copper ferrite of the type CuFe204. ZnFe204, which is characterized by high permeability, the authors have developed a series of magnetic mixed ferrites of the type NiFe204. CuFe204. ZnFe204. By studying the veriation of the magnetic properties ( $\mu$ , tan, $\nu$ ) as functions of the ratio of the copper ferrite to the nickel ferrite, the authors have established that in the mixed ferrites, for which this ratio is greater than unity, the characteristics are closer to the

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RUMANIA/Magnetism - Ferrites and Ferrimagnetism

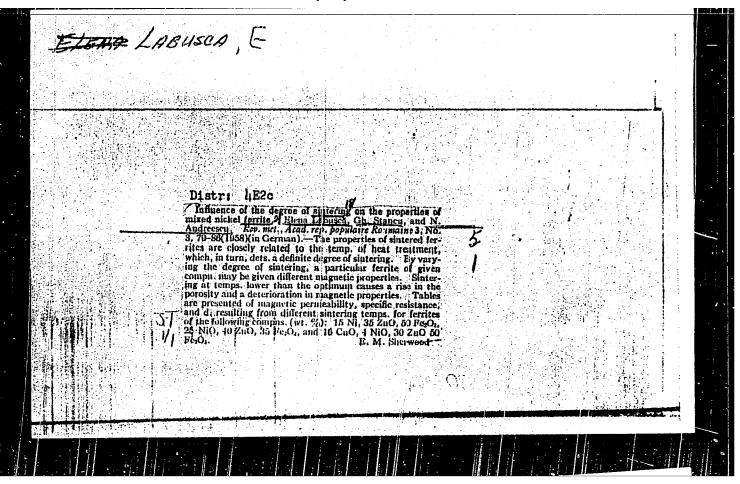
F-6

.... Abs Jour : Ref Zhur - Fizika, No 8, 1958, No 18205

characteristics of the initial nickel ferrite. They have noted tentatively a considerable variation in the magnetic properties of the copper ferrite in mixed ferrites which are rich in copper, as a function of the residual porosity.

card : 2/2

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F

<del>36-005</del>13R000928410008-9

RUMANIA/Magnetism - Ferrites and Ferricagnetism.

Abs Jour

: Ref Zhur Fizika, No 10, 1959, 22841

Author

Inst

Labusca, Elena; Constantinescu, Florica

Title

: Change in the Magnetic Properties of Mixed Cu Plus Ni Ferrites as a Function of the Relative Contents of the

Copper Ferrite and the Nickel Ferrite

Orig Pub

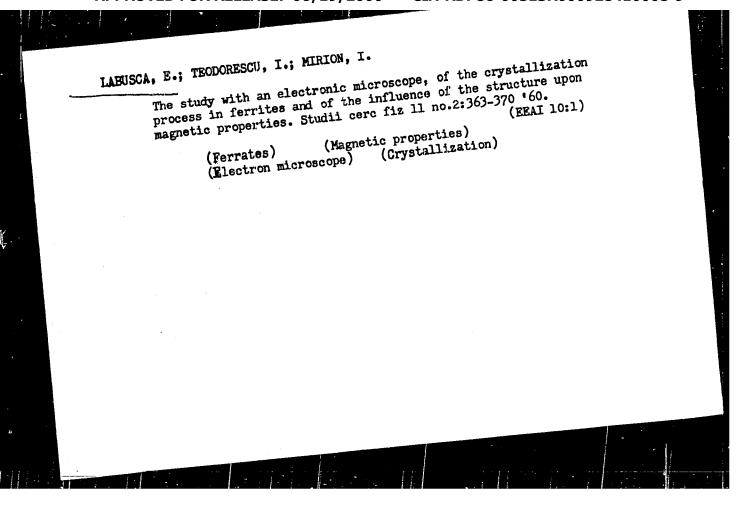
: Rev. phys. Acad. RPR, 1958, 3, No 2, 141-150

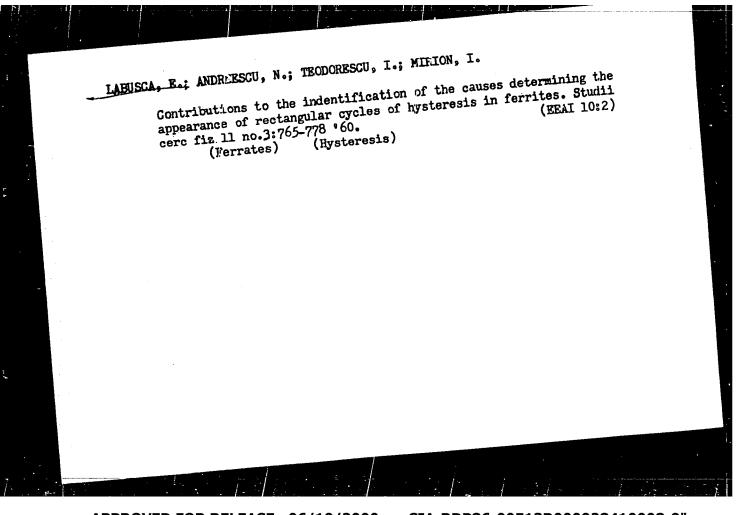
Abstract

: An investigation was made of the system of mixed Cu-Ni-Zn ferrites. The extreme points were chosen to be those of Cu-Zn ferrite with a composition 20% CuO, 30% ZnO and 50% Fe<sub>2</sub>0<sub>3</sub>, which has a ragnetic permeability approximate-ly 500<sup>2</sup>-3700 and losses of approximately 0.1 - 0.2, and of a mickel-zinc ferrite with composition 15% NiO, 35% ZnO, and 50% Fe<sub>2</sub>O<sub>3</sub>, with an approximate permeability of 40 and losses of approximately 0.001 - 0.002. It was established that the ragnetic properties of the ferrites

Card 1/2

- 50 -





LABUSCA, E.; TEODORESCU, I.; MIRION, I.

A study on the graphitization of carbon black Studii cerc fiz 11 no.4:973-982 '60.

1. Institutul de fizica atomica, Bucuresti. (Carbon black) (Graphitization)

LABUSCA, E.; ANDREESCU, N.

Specific magnetic properties of the ferrites used in automation. Studii cerc fiz 12 no.4:853-870 '61.

1. Institutul de fizica atomica, Bucuresti.

s/058/63/000/002/051/070 A160/A101

Lăbușcă, E., Andreescu, N., Teodorescu, I. AUTHORS:

An electron-microscopic study of the structure of ferrites with a great permeability and a study of some of their specific properties TITLE:

Referativnyy zhurnal, Fizika, no. 2, 1963, 84, abstract 2E563

("Rev. phys. Acad. RPR", no. 2, 1962, v. 7, 261 - 267) PERIODICAL:

The effect of the duration of sintering of mixed  $Fe_2O_3$  - MnO - MgO -- ZnO ferrites on their structure and properties was studied. A comparison of the ferrites macrostructures (obtained by the electron-microscopic method) with their magnetic properties reveals that the greatest permeability possess those ferrites which have the maximum structure homogeneity. In such ferrites, the maximum permeability increases with an increase of the sintering duration. A change of the maximum induction  $B_{\rm m}$  is only observed at the first sintering stage until a stable ferrite structure develops, and then the magnitude  $B_{\overline{m}}$  remains constant. The field corresponding to the maximum permeability decreases with an increase of the sintering duration. Investigated were also the temperature de-

Card 1/2

An electron-microscopic study of the...

s/058/63/000/002/051/070 A160/A101

pendence of permeability, its dependence on the field, and the spectra of the complex magnetic permeability in the frequency range of up to 300 kilohertz.

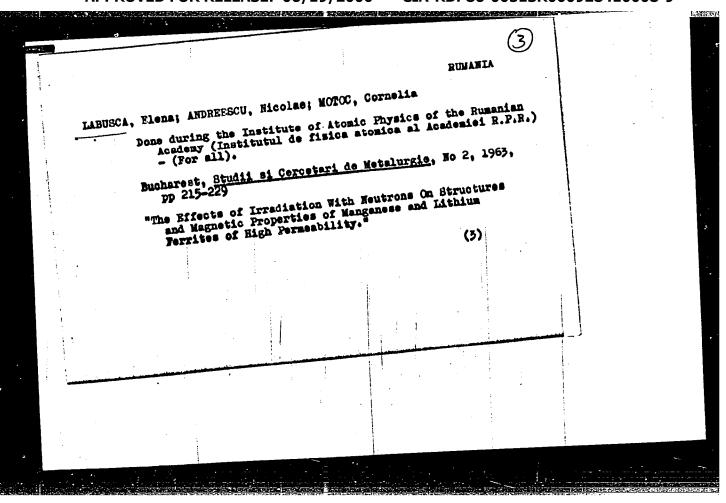
L. Sobolev

[Abstracter's note: Complete translation]

Card 2/2

IABUSGA, El.; ALECU, M.; MIRION, I.

Identification of impurity sources with exogenous nonmetallic inclusions of the steels in Siemens-Martin furnaces. Studii cerc metalurgie 7 no.3:351-359 '62.



LABUSCA, Elena; ANDREESCU, N.; MOTOC, C.

Effects o neutron irradiation on the magnetic structure and properties of manganese ferrites and lithium with high permeability.

Rev Roum metalurg 8 no. 2:183-194 '63.

CIA-RDP86-00513R000928410008-9" APPROVED FOR RELEASE: 06/19/2000

LABUSCA, Elena; ANDREESCU, Nicolae; MOTOC, Cornelia

Rifects of neutron irradiation on the structure and magnetic properties of lithium and manganese ferrites of great permeability. Studii cerc metalurgie 8 no.2;215-229 163

EDUCANCE, E. [Labusca, E.]; ALEKU, M. [Alecu, M.]; ANDREESKU, N. [Andreescu, N.]

MOTSOK, A. [Motoc, C.]

Study on the wear of the refractory lining of blast furnaces with the aid of radioisotopes. Rev Roum metalurg 8 no. 2:251-263 '63.

### LABUSCA, Elena

Influence of the technology of powder metallurgy on the properties of magnetic materials of the ferrite type. Studii cerc fiz 16 no. 10:1231-1246 164.

1. Institute of Atomic Physics, P.O. Box 35, Bucharest.

s/058/62/000/010/077/093 A061/A101

24,7900

AUTHOR:

Lăbușcă, E., Andreescu, N.

TITLE:

On the specific magnetic properties of ferrites used in automation

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 10, 1962, 49, abstract 10E380 (Studii și cercetări fiz. Acad. RPR", 1961, v. 12, no. 4, 853 -

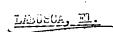
870, Rumanian; summaries in Russian and French)

The magnetic characteristics of ferrites with a rectangular hysteretic cycle and high permeability are presented. Methods of measuring these characteristics are indicated, and particular attention is devoted to those properties which account directly for the use of the ferrites concerned in electric circuits. A new method of measuring the ferrite resistance, and another new method of determining permeability in extremely weak fields, are given.

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R000928410008-9" **APPROVED FOR RELEASE: 06/19/2000** 



RUMANIA

No degree given

No affiliation given

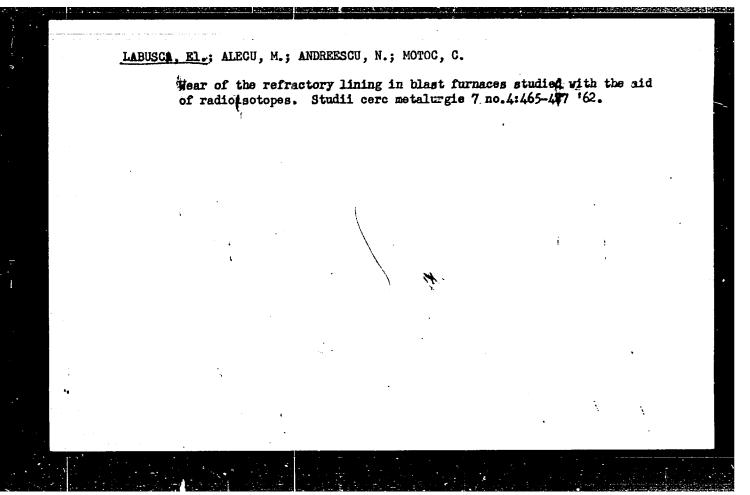
Bucharest, Studii si Cercetari de Motalurgie, No 3, 1962, pp 351-35%.

"Study to Identify the Sources of Impurity through Emogenous."
Monmetallic Inclusions of Steels Produced in Siemens-Martin Months."

Co-authors:

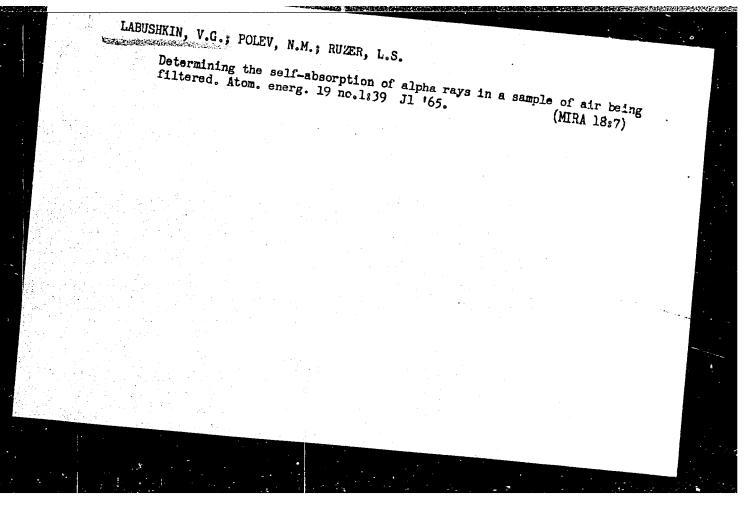
ALECU, H.

LIMION, I.



L 6447-66 AP5019804 filter at the instant of termination of filtration from the equation for the ACCESSION NR: radioactive-transformation chain and for the concentrations of these products for the case when the parent radioactive substance is long-lived. The results are compared with those obtained by E. Tsivoglou et al. (Nucleonics v. 11, no. 9, 40, 1953) and the claims of higher accuracy for the described method are briefly justified. "The authors are deeply grateful to D. M. Ziv, Ye. A. Volkova, and Yu. Y. Mazurek of the Radiyevyy institut AN SSSR (Radium Institute AN SSSR) for preparing the non-emanating Razze sources." Orig. art. has: 3 figures, 3 formulas, and 1 table. ASSOCIATION: none SUB CODE: ENCL: SUBMITTED: 03Ju164 OTHER: NR REP SOV:

CIA-RDP86-00513R000928410008-9" APPROVED FOR RELEASE: 06/19/2000



PHOTNIKOV, A.Ya.; GNEZDOV, V.I.; LABUSOVA, A.I.; BOGAYEVSKAYA, R.P.

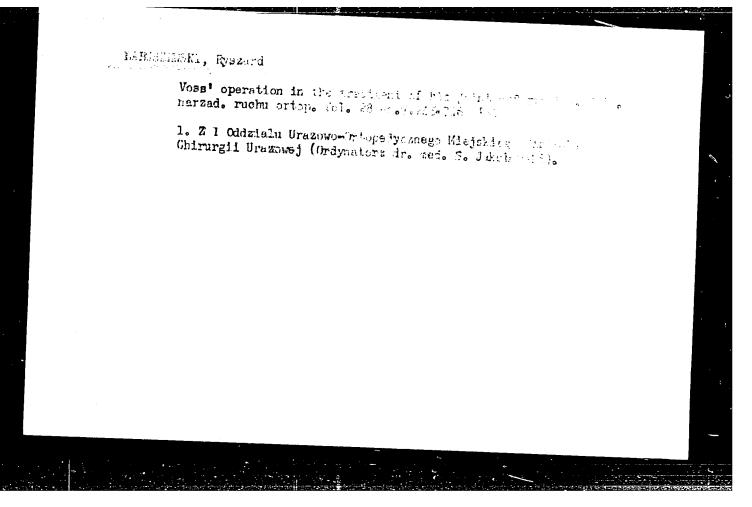
Isolation of tall oil by the separation method. Gidroliz. 1 lesokhim.

Prom. 16 no.1:21-23 163.

1. TSentral 'nyy nauchno-issledovatel'skiy 1 proyektnyy institut lesokhimicheskoy promyahlennosti (for Plotnikov, Gnezdov, Labusova).

2. Vsesoyuznyy nauchno-issledovatel'skiy 1 konstruktorskiy institut khimicheskogo mashinostroyeniya (for Bogayevskaya).

(Tall oil)



JAKUBOWSKI, Sylwester; dr. med.; BAZYLCZUK, Lech; LABUSZEWSKi, Ryszard

Lesions of the tendons of the hand in rheumatoid patients. Reumatologia (Warsz) 3 no.1:35-42 165.

1. Z I Oddzialu Urazowo-Ortopedycznego Miejskiego Szpitala Chirurgii Urazowej w Warszawie (Ordynator: dr. med. S. Jakubowski) i z Wojewodzkiej Przychodni Reumatologicznej w Warszawie (Dyrektor: dr. med. H. Znajewska-Zarembina).

VISHNEVSKIY, Isaak Davidovich; LABUT, Andrey Aleksandrovich; LEMESHCHUK, Petr Kondrat'yevich; CHERKES, Mikhail Yur'yevich; MALAKHOV, K.N., inzh., retsenzent; PREDE, V.Yu., inzh., red.; VOROTNIKOVA, L.F., tekhm. red.

[Industrial transportation sections and railroad stations]Transportnyi tsekh i stantsiia. Moskva, Transzheldorizdat, 1962.

58 p. (MIRA 15:11)

(Railroads, Industrial) (Railroads—Freight)

LABUTIN, A., kand. tekhn. nauk; MONAKHOVA, K.

Protection against marins corrosion by liquid nairits. Mor. flot 25 (MIRA 18:7)

1. Starshy 1 1.65.

1. Starshy 1 1.65.

1. Starshy institute sinteticheskogo kauchuka imeni akademika S.V.Lebedeva (for Monakhova).

SHVETS, Ivan Trofimovich, prof.; TOLUBINSKIY, Vsevolod Ivanovich, prof.; KIRAKOVSKIY, Mikolay Feliksovich, dots.; NEDUZHIY, Ivan Afansejvevich, dots.; SHEUD'KO, Ivan Mikhavlovich. dots.; VOZNESENSKIY, A.A., prof., retsenzent; LABUTIN, A.A., spets. red.; BALYASNAYA, A.Ye., red.

[General heat engineering] Obshchaia teplotekhmika. [By]
I.T.Shvets i dr. Kiev, Izd-vo Kievskogo univ., 1963. 562 p.

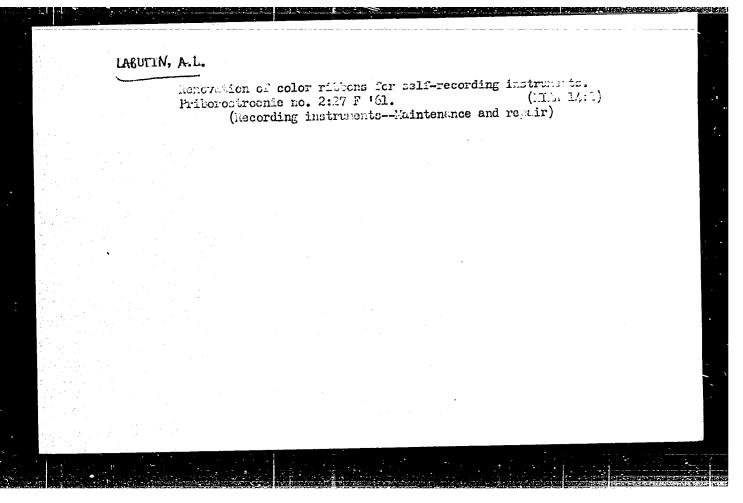
(MIRA 17:10)

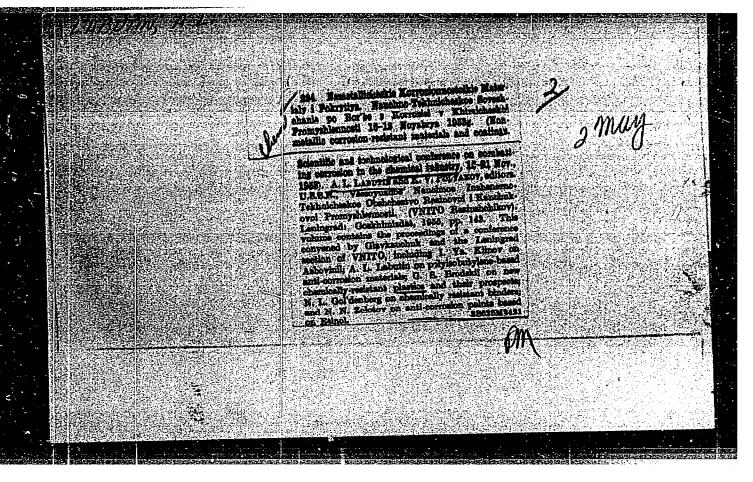
SHELUD KO, Ivan Mikhaylovich; LABUTIN, Aleksandr Alekseyerich;
SHCHEKKINA, Galina Afanas yevna; TUROVSKIY, B.redaktor;
ZELERKOVA, Ye.tekhnicheskiy redaktor

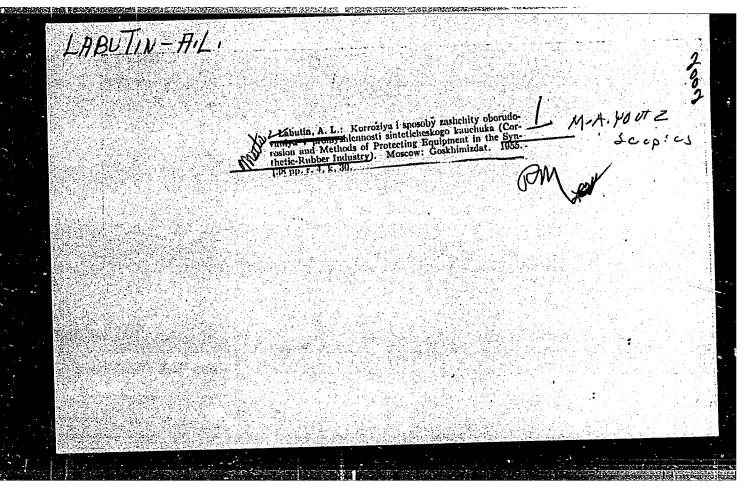
[Heat power engineering equipment for machine-tractor stations]
Teploenergeticheskoe oborudovanie MTS; spravochnoe posobie.
Kiev, Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1956.

(MIRA 10:4)

(Heat engines) (Machine-tractor stations)







LABUTIN, A. L.

"New Corrosion-resistant Nonmetal Materials"

The Kirov District of Leningrad Strives for Technological Progress; Collection of Articles, Leningrad, Sudpromgiz, 1957. 171pp.

This collection of articles describes the progressive experience of the industrial plants of the Kirov district of the city of Leningrad in the fields of shipbuilding, machine building, instrument-making, casting, hydrolytic and other industries. New manufacturing methods are discussed.

# Use of synthetic rubbers in corrosion prevention. Khim. nauka i prom. 2 no.3:359-365 '57. (MLRA 10:8) (Rubber, Synthetic) (Corrosion and anticorrosives)

AUTHORS:

Pigulevskiy, V.V. Labutin, A.L.

32-3-38/52

TITLE:

A Block Furnace for the Testing of Catalyzers and the Investigation of Catalytic Reactions (Blochnaya pech' dlya ispytaniya

katalizatorov i izucheniya kataliticheskikh reaktsiy)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, NR 3, pp. 358-359 (USSR)

ABSTRACT:

A block furnace for the investigation of catalytic dehydration reactions of butane and butylene as well as of the dehydration catalyzers themselves was constructed. The block is of highly refractory aliminum bronze AB plo of good thermal conductivity. As is shown by a drawing, the furnace has the usual appearance, two channels being provided for the purpose of cooling or operation in certain gas atmospheres. The furnace work at temperatures of from 550° to 675° for up to 10,000 hours without any repair being necessary. The thermoregulator works with an accuracy of up to 3 to 4° C. Selection of the metal for the interior of the surface depends on test conditions. For the aforementioned tests steel of the type R 28 having a chromium content of about 27% was used

Card 1/2

A Block Furance for the Testing of Catalyzers and the Investigation of Catalytic Reactions

32-3-38/52

with success at 550 - 675° C. There are 1 figure, and 2 references, 1 of which is Slavic.

ASSOCIATION: All-Union Scientific Research Institute of Synthetic Rubber imeni S. V. Lebedev (Vsesoyuznyy nauchno-issledovatel'skiy Institut

sinteticheskogo kauchuka im. S.V. Lebedeva)

Library of Congress AVAILABLE:

Catalyzers-Test methods
 Catalytic reactions-Investigations
 Furnaces-Applications

Card 2/2

CIA-RDP86-00513R000928410008-9" APPROVED FOR RELEASE: 06/19/2000

#### "APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928410008-9

s/081/62/000/007/032/033 B168/B101

AUTHOR:

Labutin, A. L.

TITLE:

New protective coatings based on synthetic rubbers and

polymers akin to them

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 7, 1962, 658, abstract 7P346 (Sb. "Zashchita izdeliy ot vozdeystviya tropich.

klimata". L., 1959, 82-107)

TEXT: Use of nairit, polyisobutylene of various makes, butyl rubber and thiocol. Methods of application: gas-flame dusting, dipping in a "pseudoliquid layer". Corrosion-resistance tables for different materials are given. [Abstracter's note: Complete translation.]

Card 1/1

CIA-RDP86-00513R000928410008-9" APPROVED FOR RELEASE: 06/19/2000

PHASE I BOOK EXPLOITATION SOV/3316

5(1)

# Labutin, Aleksandr Lukich

Korroziya i sposoby zashchity oborudovaniya v proizvodstve organicheskikh kislot i ikh proizvodnykh (Corrosion and Methods of Protecting Equipment Used for Production of Organic Acids and Their De-rivatives) Moscow, Goskhimizdat, 1959. 184 p. (Series: Korroziya v khimicheskikh proizvodstvakh i sposoby zashchity, vyp. 13) Errata slip inserted. 3,500 copies printed.

Ed. (Title page): G. V. Sagalayev; Ed. (Inside book): S.I. Belen'kiy;
Tech. Ed.: V. F. Zazul'skaya; Editorial Board of Series:
N. A. Baklanov, V. Ye. Volodin, V. S. Kiselev (Chairman),
I. Ya. Klinov, V. I. Kruchinin (Deceased), (Secretary),
G. V. Sagalayev (Deputy Chairman) and P. G. Udyma.

PURPOSE: This booklet is intended for technicians of chemical plants and for staff members of scientific research institutes and design

organizations.

COVERAGE: An attempt is made to analyze the process of corrosion caused by acid, salt or oxygen and to determine the possibility Card 1/4

Corrosion and Methods (Cont.)

SOV/3316

of combatting corrosion of equipment used in acid production. The scale showing the corrosion rate of different metals in contact with acid is presented, and steel alloys most resistant to corrosion are analyzed. Production of industrial organic acids such as acetic, formic and oxalic is described as well as production of food industry acids such as citric, tartaric and lactic. The author illustrates flow sheets of units producing acids of various types and the equipment used for this purpose. He also discusses the problem of protecting equipment against corrosion during the production of acetic anhydride, subacetates, acetyl cellulose, cellulose triacetate and polyvinyl acetate. Manufacturing of equipment built of stainless steel is briefly reviewed and the utilization of clad steel and bimetallic pipes in acid production described. Replacement of equipment parts made of expensive nonferrous metals by parts made of synthetic material is discussed. There are 53 references: 44 Soviet, 5 English and 4 German.

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From the Editor Card 2/4

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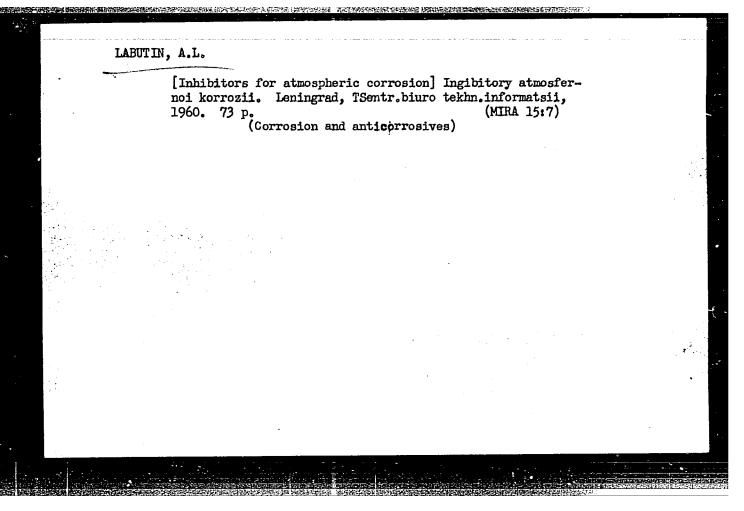
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31,882

\$/081/62/000/003/042/90 B156/B101

18.8310

Persiantseva, V.P., Rozenfel'd, I. L., Novitskaya, AUTHORS:

M.A., Akimova, T.I., Labutin, A.L.

TITLE:

Mechanism by which volatile inhibitors work

FERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 327-328, abstract 31211 (Vestn. tekhn. i ekon. inform. li.-i in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min.

SSSR i khimii, no. 2, 1961, 68-76

TEXT: Research into the protective properties of a large number of compounds used as volatile corrosion inhibitors (VCI) has revealed a number of VCI which are effective at protecting steel and nonferrous metals from corrosion (a table is included). Study of the electrochemical behavior of steel in the presence of VCI has shown that a potential shift characteristic of adsorption of VCI by the metal surface takes place. The effects of four VCI are examined in detail; these are benzyl amine, morpholine, dicyclohexyl amine nitrite, and cyclohexyl amine carbonate. It has been found that VCI is adsorbed in the form of molecules or ions Card 1/2

\$/081/62/000/003/042/0°0 B156/B101

Mechanism by which ...

which develop as a result of hydrolysis in an aqueous film of electrolyte (complex organic cations, hydroxyl groups, or acid residue). These adsorbed groups in some cases only retard the rate of anodic reaction, and in other cases the rates of both anodic and cathodic reactions. It is pointed out that the properties which should be used as the basis on which to gauge the effectiveness of VCI are: the vapor pressure, the adsorption capacity and bond strength of the VCI or protective group and the metal surface, and also the degree to which electrochemical reactions, which govern the corrosion process, are retarded by the VCI. | Abstracter's note: Complete translation.

Card 2/2

LABUTIN, A.L.; KALINICHEVA, N.A.; KACHALOVA, R.V.; TRENKE, K.M.

New organic solvents and their possible application to the lacquer and paint manufacture. Lakokras. mat. i ikh prim. (MIRA 14:6) no.3:25-26 161.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka imeni S.V. Lebedeva.

(Solvents)

(Paint industry)

18.8310

26988

S/138/61/000/005/001/006 A051/A129

15.9202

Klebanskiy, A. L., Tsukerman, N. Ya., Kartsev, V. N., Labutin, A. L., Trenke, Yu. V., Mal'shina, L. P., Borovikova, N. A., Karelina, G. G.,

Rozhkov, Yu. P.

TITLE:

AUTHORS:

A new type of chloroprene rubber: liquid nairite

(This work was awarded the second prize at the VKhO im. D. I. Mendele-

yev competitions in 1959)

PERIODICAL: Kauchuk i rezina, no. 5, 1961, 1 - 5

TEXT: The high chemical stability, the gasoline-petroleum stability and ozone-resistance of chloroprene rubber makes it a suitable material for anti-corrosion coating and hermetic sealing. However, the difficulty of producing highly-concentrated solutions based on commercial nairite limited the application of the latter in anti-corrosion technique. It has been assumed that the use of low-mole-cular polymers for this purpose would enable one to obtain low-viscose, highly-concentrated solutions satisfying the anti-corrosion techniques. One of the methods for producing low-molecular polymers is the use of the polymerization of increased concentrations of regulator-compounds able to break the chains and to form new ac-

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s/138/61/000/005/001/006 A051/A129

A new type of chloroprene rubber: liquid nairite

tive centers. Sulfurous compounds, such as mercaptane, thioacids, xanthogenesulfi des, are widely used as regulators. When studying the action of n-tetradecylmercaptane, diisopropylxanthogenedisulfide and bisethylxanthogenedisulfide during the process of polymerization of chloroprene, it was established that with an increase in the concentration of the regulator the molecular weight of the polymer drops correspondingly and the plasticity of the rubber increases. It was assumed that the use of greater quantities of bisethylxanthogenedisulfide in the polymerization of chloroprene in emulsion decreases the molecular weight of the polymer and yields low-viscosity solutions of rubber. An attempt was made to produce low-mclecular polychloroprene by polymerization of chloroprene in the presence of sulfur with subsequent destruction of the polymer. It was shown that the action of sulfur differs from that of other regulators. The effect of sulfur on the polymers of chloroprene is shown by the scheme:  $-(CH_2-CC1=CH-CH_2)_n-S_x-(CH_2-CC1=CH-CH_2)_m-S_x$ , where x=2-6. The sulfur forms linear bonds in the polymer chain. With an increase in the bound sulfur content in the polymer the molecular weight of the polymer decreases in the subsequent interaction with thiuram from 600,000 to 280,000 with 0.3% of bound sulfur and from 300,000 to 43,000 with 1% of bound sulfur. The quantity of reacted thiuram increases respectively. The destruction scheme is given as follows: 1) The formation of free radicals under the effect of the thermal action or thiuram:

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26988

A new type of chloroprene rubber: liquid nairite

8/138/61/000/005/001/006

 $-(\text{CH}_2\text{-CC1}\text{-CH}-\text{CH}_2)_n-\text{S}-\text{S}-\text{S}-\text{S}-\text{CC1}\text{-CH}-\text{CH}_2)_m-\text{S}-\text{S}-\text{S}-\text{S}-\text{S}- \to -(\text{CH}_2\text{-CC1}\text{-CH}-\text{CH}_2)_n-\text{S};$ 2)-Recombination of the polymer radical with molecular thiuram and splitting off of the latter along the -S-S-bond:

Based on the outlined assumptions of the mechanism of the sulfur action during the process of chloroprene polymerization and destruction of the polymer under the effect of the chemical masticating substances, the conditions for producing low-molecular chloroprene rubber-"liquid" nairite were developed. The liquid types of nairite can be obtained on a typical apparatus. The sulfur can be introduced in the form of solutions in mineral oils as well as aqueous dispersions obtained in the presence of emulsifiers and protective colloids. It was shown by V. N. Kartsev, M. A. Gutman, G. G. Karelina, F. Ye. Berman, Ye. G. Malinovskaya, M. B. Shur at VNIISK, no. 2389, 1951, that for mastication the most effective system is mercapto-

Card 3/6

A new type of chloroprene rubber: 26988 liquid nairite

S/138/61/000/005/001/006 A051/A129

benzothiazol (captax)-diphenylguanidine (DPhG). To increase the activity of these agents, tetramethylthiuramdisulfide was added (thiuram D) or tetraethylthiuramdisulfide (thiuram E). Literature data indicate that active masticating agents of polychloroprene are the piperidine salt of hexamethylenedithiocarbamine acid or ammonium hexamethylenedithiocarbamate. The order of introduction of the agents plays an important role. The effect of the type and composition of the carbon black on the solubility of the rubber mixtures from "liquid" nairite was investi-Only the thermal carbon black helps to retain complete solubility. Higher indices of relative elongation when filling with 100 w.p. and over are achieved with thermal carbon black. The composition and technology for preparing the rubber mixtures based on the "liquid" nairite with thermal carbon black as filler yielded highly-concentrated solutions (70 - 75%). These solutions are suitable for sealing various equipment by the same methods which are used in the case of dye and varnish coatings. Tests of coatings made of liquid nairite in experimental and natural samples in various industrial fields showed the expediency of using this product as a material for protecting the metal from corrosion, erosion, cavitation and also as a material for hermetic sealing. There are 4 tables and 21 references: 2 Soviet-bloc, 19 non-Soviet-bloc. The references to the 4 most recent

Card 4/6

26988

s/138/61/000/005/001/006

A new type of chloroprene rubber: liquid nairite

A051/A129

English-language publications read as follows: Corros. Technol., 5, no. 4, 107 (1958); R. B. Seymour a. oth., Plastics for Corrosion Resistant Application, N.Y., 1955, 90; Rubb. a. Plast. Age, 39, no. 8, 684 (1958); Corros. Technol., 3, no. 3, 89 (1956).

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute of Synthetic Rubber im. S. V. Lebedev)

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AUTHORS:

Labutin, A. L., Klebanskiy, A. L., Tsukerman, N. Ya., Kartsev, V. N., Trenke, Yu. V., Mal'shina, L. P., Borovikova, N. A., Karelina, G. G.,

TITLE:

"Liquid nairite" - a new material for rubberizing

PERIODICAL: Kauchuk i rezina, no. 6, 1961, 5 - 8

TEXT: The authors state that in the chemical destruction of "liquid" nairite, highly concentrated solutions can be produced which are applicable as a material for rubberizing. In the USSR a safer binary solvent, consisting of 2 weight parts of ethylacetate and 1 w.p. of gasoline is used in nairite adhesives. Experiments showed, however, that this solvent in "liquid" nairite is not suitable for many technical reasons. Better results were obtained in using a ternary solvent consisting of 76% solvent, 19% turpentine and 5% n-butanol. The latter component does not dissolve the nairite, but facilitates the use of the brush for painting and good coating distribution. It was noted that film vulcanization from liquid nairite at 20°C does not show positive results. Thus various forms of thermal vulcanization were investigated; vulcanization with heated air, live vapor, hot water Card 1/6

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and infra-red irradiation. It was established that the most suitable method was vulcanization by hot air. The physico-mechanical indices of nairite coatings vulcanized in air at various temperatures are given in Fig. 1. Fig. 2 shows the relationship between the temperature and duration of the vulcanization. The most suitable temperatures of vulcanization in air are within the range of 100 - 142°C. It was noted that the liquid nairite coatings did not possess the proper adhesion to metal. Thus certain other adhesives or coatings ensuring better adhesion between metal and coating were sought. The best results were obtained with the following three materials: standard leuconate (organic base: n, n', n'' - triisocyanatetriphenylmethane), chloronairite adhesive (organic base; chloronairite and nairite) and a primer, tentatively called epoxide primer (organic base: epoxide resin, chloronairite and nairite). The chemical stability and anti-corrosion properties of the vulcanized nairite coatings were studied. The conclusion was drawn that 1.2-mm nairite coatings in combination with a water-resistant coating applied three times can reliably protect metals from corrosion due to aqueous solutions of many acids, alkali and salts. The coatings were not resistant to the action of oxidizing agents, aromatic and halided solvents. Rubber coatings differ from varnish and plastic coatings by an increased resistance to abrasive wear. An attempt was made

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to determine the resistance of nairite coatings under conditions of dry friction using the Grosselli-type machine. It is concluded that coatings of so-called crystallizing liquid nairite obtained in low-temperature polymerization are superior to other rubbers in their wear-resistance, excepting vulcollane, which has a unique resistance to abrasive wear. It was established that coatings of liquid oil nairite are superior to coatings of bakelite, polyethylene and caprone, when tested in rapidly flowing sea water. Tests have further shown that liquid nairite as a material for coatings will become widely used in industry in the next few years. At present tests are being conducted in the North Sea and the Atlantic Ocean on . propellers of fishing trawlers coated with liquid nairite for protection from corrosion, erosion and cavitation. Mechanical plants are testing steel covers of refrigerators and condensators coated with nairite. These were previously manufactured from non-ferrous metals. Certain chemical plants have installed diaphragm valves, the interior of which is covered with liquid nairite to prevent corrosion from acid solutions, alkali and salts. The possibility of using nairite coatings in various instruments as a means for preventing spark formation in percussion has also been revealed. Finally, it was established that these coatings can be used in certain constructions for hermetic sealing. At the Moscow TETs NO 12 a vacuum-condensator of a mass-produced 50 thousand kw steam turbine withstood a

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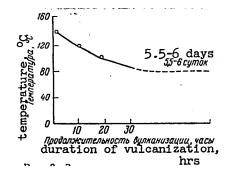
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testing period of one and a half years with the brass pipes and steel pipe boards coated with liquid nairite. K. S. Shmurey, O. P. Abolina, A. I. Konstantinova and G. A. Selivanovskaya took part in the work. There are 2 tables and 2 sets of graphs.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute of Synthetic Rubber im. S. V. Lebedev)

Fig. 2. Dependence of the vulcanization duration of the coatings made of liquid nairite on the temperature



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New protective coatings of synthetic rubber. Mashinostroitel no.5:

(MIRA 14,5)

38-40 My '61.

(Protective coatings) (Rubber, Synthetic)

KLEBANSKIY, A.L.; TSUKERMAN, N.Ya.; KARTSEV, V.N.; LABUTIN, A.L.; TRENKE, Yu.V.; MAL'SHINA, L.P.; BOROVIKOVA, N.A.; KARELINA, G.G.; ROZHKOV, Yu.P.

Liquid nairit, a new type of chloroprene rubber. Kauch.i rez. 20 no.20:1-5 My '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issleodvatel'skiy institut sinteticheskogo kauchuka im. S.V.Lebedeva.
(Rubber, Synthetic) (Neoprene)

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BERMAN, L.D., doktor tekhn.nauk; LABUTIN, A.L., kand.tekhn.nauk; FUKS, S.N., kand.tekhn.nauk; MAL'SHINA, I.P., inzh.; SHMUREY, K.S., inzh.

Rubberizing of the tube plates of a steam turbine condenser with "liquid" nairit. Elek. sta. 32 no.7:6-10 J1 '61. (MIRA 14:10) (Steam turbines) (Neoprene)

LABUTIN, Aleksandr Lukich, kand. tekhn. nauk; FEDOROVA, Nina
Stepanovna; SLOBODIN, Ya.M., prof., red.; VASIL'YEV, Yu.A.,
red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Anticorrosive and sealing thickol compounds] Antikorrozionnye i germetiziruiushchie tickolovye sostavy. Leningrad,
1962. 21 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Sinteticheskie materialy, no.4) (MIRA 15:10)

(Rubber, Synthetic)
(Corrosion resistant materials)

LABUTIN, Aleksandr Lukich, kand. tekhn. nauk; FEDOROVA, Nina
Stepanovna; SLOBODIN, Ya.M., prof., red.; VASIL'YEV,
Yu.A., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Hermetic seals from rubbers]Cermetiki na osnove kauchukov; stenogramma lektsii. Leningrad, 1962. 47 p.

(MIRA 15:10)

(Sealing (Technology)) (Rubber, Synthetic)

LABUTIN, Aleksandr Lukich; BELEN'KAYA, S.M., red.; SHPAK, Ye.G., tekhn. red.

[Use of rubbers in anti-corrosive equipment] Kauchuki v anti-korrozionnoi tekhnike. Moskva, Goskhimizdat, 1962. 111 p. (Korroziia v khimicheskikh proizvodstvakh i sposoby zashchity, no.18) (MIRA 15:7)

(Rubber coatings)
(Corrosion and anticorrosives)

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BOCHMANOV, D.V., inzh.; LABUTIN, A.L., kand.tekhn.nauk; MAL'SHINA, L.P., inzh.; MONAKHOVA, K.S.

Synthetic materials in ship repair. Sudostroenie 28 no.7:56(MIRA 15:8)
61 Jl '62.
(Ships--Maintenance and repair) (Protective coatings)

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AUTHOR:

Labutin, A. L.

TITLE:

The section

New liquid polymers and rubber coatings based on them

SOURCE:

Primeneniye polimerov v cantikorrozionnoy tekhnike. Ed. by I. Ya. Klinov and P. G. Udyma. Moscow, Mashgiz, 1962. Vses. sovet nauchno-tekhn. obshchestv. 31-40

TEXT: Three rubberlike materials have been developed in the Soviet Union to be used as protective coatings for metal parts of chemical apparatus. (1) Diquid nairit, a low-molecular polychloroprene, similar to the US-made liquid neoprene. Carbon black and vulcanizers (MgO, ZnO) are added. A recommended as solvent naphtha, 19% turpentine, and 5% n-butyl alcohol is by heating in air at 100°C. A sprayer operating with 15-18 atm compressed air was developed at the Tsentral noye konstruktsionnoye byuro Physicomechanical characteristics are: specific gravity 1.4-1.5; tensile strength 70-90 kg/cm²; relative elongation 240-280%; residual elongation Card 1/3

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strength determined by the y -1A (U-1A) apparatus, 50; adhesion to primed steel 30-50 kg/cm2; brittleness point -40°C; no porosity and no permeability to water of a nairit film 0.5 mm thick; 3-10% swelling after 30 days' lying in water; satisfactory oilproofness. Glues and primers used: "leuconate", a solution of p,p',p"-diisocyanate-triphenyl methane in dichloro ethane: adhesion to steel 15-20 kg/cm2; chlorinated rubber glue (solution of chlorinated nairit and nairit): adhesion  $30-35 \text{ kg/cm}^2$ ; and primer 33 (solution of chlorinated nairit, nairit, and epoxy resin): adhesion 40-50 kg/cm2. There is also high adhesion to aluminum and nonferrous metals, except copper. The chemical stability of nairit coatings is being tested in chemical plants. The data agree with those for US-made neoprene, except for instability to 20% HCl and 10% acetic acid at 60°C. (2) Liquid thickol, a polysulfide rubber vulcanizing within 24 hrs at room temperature, waterproof and highly oilproof. Three thickol sealers are produced in the Soviet Union: Y-30M (U-30M) containing carbon black, no solvent; YT-31 (UT-31) containing titanium white, and BTYP (VTUR) containing a solvent and adhesive admixtures. Physicomechanical characteristics of the coatings: specific gravity 1.8-2.5; tensile strength 20-40 kg/cm<sup>2</sup>; relative elongation 250-400%; residual elongation

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3-10%; adhesion to steel 25-35 kg/cm<sup>2</sup>; swelling in H<sub>2</sub>O (30 d) 1-1.5%; other data agree with those for nairit. Thiokol coatings are unstable to 10% HNO<sub>3</sub>, 50% H<sub>2</sub>SO<sub>4</sub>, 30% HCl, benzene, dichloro ethane, and chloro benzene. After thorough testing liquid self-vulcanizing thiokol sealers will be used in the aircraft, shipbuilding, instrument-making and other industries. (3) liquid siloxane, a mixture of liquid siloxane rubber and powdered silica gel; vulcanizers are added before use. The coatings are stable between -50 and +250°C, but poorly resistant to dilute acids and alkalis. Physicomechanical properties: sp.gr. 1.9-2.2; tensile strength adhesion to steel 6-10 kg/cm<sup>2</sup>; brittleness point -50°C; swelling in H<sub>2</sub>O 1%; not oilproof; other data accord with those for nairit. There are

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